

Oliu-1 Armando

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Friday, January 17, 2003 1:56 PM

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JSC STS-107 Launch Screening -Long Range Tracking .videos

**January 17, 2003**

JSC Image Science and Analysis Group Human Exploration Science Office / SX

ANOMALY

'ET204, ET208, ET212 -During ascent at approximately 81 seconds MET, a large light-colored piece of debris was seen to originate from an area near the ET/Orbiter forward attach bipod.- The debris appeared to move outboard in a -Y direction, then fell aft along the left Orbiter fuselage, and struck the leading edge of the left wing. The strike appears to have occurred on or relatively close to the wing glove near the Orbiter fuselage. After striking the left wing the debris broke into a spray of white-colored particles that fell aft along the underside (-Z side) of the Orbiter left wing. The spray of particles was last seen near the LSRB exhaust plume.

Still views and a movie loop of this event are being placed on our web site for viewing at the following address:

<[http://sn-isag.jsc.nasa.gov/shuttleweb/mission\\_support/sts-107/launch\\_video/1071aunchvideo.shtml](http://sn-isag.jsc.nasa.gov/shuttleweb/mission_support/sts-107/launch_video/1071aunchvideo.shtml)>

The times of this event are as follows

Debris first seen near ETfOrbiter forward attach: Debris contacted left wing:

016:15:40:21.882 UTC

016:15:40:21.699 UTC

Screening of the high speed and high resolution long range tracking films

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that may show more detail of this event will begin on Saturday morning January 18th.

Normal Observations Noted **Included:**

Vapor off the SRB stiffener rings, recirculation, SRB plume brightening, and slag debris after SRB separation.

## NOTES

The long range video tracking views had very soft focus possibly due to clouds and haze.

SRB separation occurred at approximately 016:15:41:06.558 UTC as seen on camera ET208.

Five long range tracking videos were received and screened. received on all of the videos received except ET207.

**Timing** data was

The launch film screening will be conducted on Saturday and Sunday and a report will be sent to distribution on Monday, January 20, 2003.

Jon Cisler / SX3-LM

Joe Caruana / SX3-LM

Eric Nielsen / SX3-HEI